

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

01-104-B

Serial No.

10/074,754

INFORMATION DISCLOSURE STATEMENT BY  
APPLICANT



96-886-L (olcl)  
Applicant: Cone et al.

Filing Date:  
February 13, 2002

Group: 1614

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number								Date	Name	Class	Subclass	Filing Date if Appropriate
	1	5	2	8	0	1	1	2	1/18/94	Cone et al.			
	2	5	5	3	2	3	4	7	7/2/96	Cone et al.			
	3	4	6	8	3	1	9	5	7/28/97	Mullis et al.			
	4	4	6	8	3	2	0	2	11/27/90	Mullis			

FOREIGN PATENT DOCUMENTS

		Document Number								Date	Country	Class	Subclass	Translation	
														Yes	No
	5	WO	93	2	1	3	1	6	10/28/93	PCT					
	6	WO	93	2	1	3	1	5	10/28/93	PCT					

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>  <b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>  <b>INFORMATION DISCLOSURE STATEMENT BY</b> <b>APPLICANT</b>	<b>Atty. Docket No.</b>  <b>01-104-B</b>	<b>Serial No.</b>  <b>10/074,754</b>
		<b>Applicant: Cone et al.</b>
	<b>Filing Date:</b> <b>February 13, 2002</b>	<b>Group: 1614</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	7	Ahmed et al., "Isolation and purification of a melanocyte-stimulating hormone receptor from B16 murine melanoma cells. A novel approach using a cleavable biotinylated photoactivated ligand and streptavidin-coated magnetic beads," <i>The Biochemical Journal</i> 286:377-382 (September 1, 1992)
	8	Bergendahl et al., "Short-Term Starvation Decreases POMC mRNA but Does Not Alter GnRH mRNA in the Brain of Adult Male Rats," <i>Neuroendocrinol.</i> 56:913-920 (1992)
	9	Bertling, "Transfection of a DNA/Protein Complex into Nuclei of Mammalian Cells Using Polyoma Capsids and Electroporation," <i>Bioscience Reports</i> 7:107-112 (1987)
	10	Bost et al., "Molecular characterization of a corticotropin receptor," <i>Molecular and Cellular Endocrinology</i> 44:1-9 (1986)
	11	Bost et al., "Similarity between the corticotropin (ACTH) receptor and a peptide encoded by an RNA that is complementary to ACTH mRNA," <i>PNAS</i> 82:1372-1375 (March 1985)
	12	Brady et al., "Altered Expression of Hypothalamic Neuropeptide mRNAs in Food-Restricted and Food-Deprived Rats," <i>Neuroendocrinol.</i> 52:441-447 (1990)
	13	Buckley & Ramachandran, "Characterization of corticotropin receptors on adrenocortical cells," <i>Proc. Natl. Acad. Sci. USA</i> 78:7431-7435 (1981)
	14	Chen & Okayama, "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA," <i>Mol. Cell. Biol.</i> 7:2745-2752 (1987)
	15	Chen et al., "A Colorimetric Assay for Measuring Activation of G <sub>s</sub> - and G <sub>q</sub> -Coupled Signaling Pathways," <i>Analyt. Biochem.</i> 226:349-354 (1995)
	16	Chhajlani et al., "Molecular cloning and expression of the human melanocyte stimulating hormone receptor cDNA," <i>FEBS Letters</i> 309(3):417-420 (September 14, 1992)
	17	Chirgwin et al., "Isolation of Biologically Active Ribonucleic Acid for Sources Enriched in Ribonuclease," <i>Biochemistry</i> 18:5294-5299 (1979)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>  <b>01-104-B</b>	<b>Serial No.</b>  <b>10/074,754</b>
<b>INFORMATION DISCLOSURE STATEMENT BY</b> <b>APPLICANT</b>		<b>Applicant: Cone et al.</b>	
		<b>Filing Date:</b> <b>February 13, 2002</b>	<b>Group: 1614</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	18	DeWied & Jolles, "Neuropeptides derived from pro-opiocortin: Behavioral, physiological and neurochemical effects," <i>Physiol. Rev.</i> 62:976-1059 (1982)
	19	Dixon et al., "Structural features required for ligand binding to the $\beta$ -adrenergic receptor," <i>EMBO J.</i> 6:3269-3275 (1987)
	20	Eberle et al., "Receptor-specific antibodies by immunization with 'antisense' peptides?," <i>Peptide Research</i> 2(3):213-220 (1989)
	21	Felgner et al., "Enhanced Gene Delivery and Mechanism Studies with a Novel Series of Cationic Lipid Formulations," <i>J. Biol. Chem.</i> 269:2550-2561 (1994)
	22	Fink et al., "The CGTCA sequence motif is essential for biological activity of the vasoactive intestinal peptide gene cAMP-regulated enhancer," <i>Proc. Natl. Acad. Sci. USA</i> 85:6662-6666 (1988)
	23	Gantz et al., "Molecular Cloning of a Novel Melanocortin Receptor," <i>J. Biol. Chem.</i> 268:8246-8250 (1993)
	24	Gerst et al., "Dual Regulation of $\beta$ -Melanotropin Receptor Function and Adenylate Cyclase by Calcium and Guanosine Nucleotides in the M2r Melanoma Cell Line," <i>Mol. Pharmacol.</i> 31:81-88 (1987)
	25	Gilman, "A Protein Binding Assay for Adenosine 3':5'-Cyclic Monophosphate," <i>Proc. Natl. Acad. Sci. USA</i> 67:305-312 (1979)
	26	Grahame-Smith et al., "Adenosine 3':5'-Monophosphate as the Intracellular Mediator of the Action of Adrenocorticotrophic Hormone on the Adrenal Cortex," <i>J. Biol. Chem.</i> 242:5535-5541 (1967)
	27	Gruber & Callahan, "ACTH-(4-10) through gamma-MSH: evidence for a new class of central autonomic nervous system-regulating peptides," <i>Am. Physiol. Soc.</i> 257:R681-R694 (1989)
	28	Hanneman et al., "Peptides encoded by the pro-opiomelanocortin gene," in <u>Peptide Hormone as Prohormones</u> , G. Martinez, ed. (Ellis Horwood Ltd.: Chichester, UK) pp. 53-82 (1987)
	29	Hofmann et al., "Radioactive probes for adrenocorticotrophic hormone receptors," <i>Biochemistry</i> 25(6):1339-1346 (March 25, 1986)

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
-----------------	------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.  01-104-B	Serial No.  10/074,754
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Cone et al.	
		Filing Date: February 13, 2002	Group: 1614

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

30	Hruby et al., "Cyclic Lactam $\alpha$ -Melanotropin Analogues of Ac-Nle <sup>4</sup> -cyclo[Asp <sup>5</sup> ,D-Phe <sup>7</sup> ,Lys <sup>10</sup> ] $\alpha$ -Melanocyte-Stimulating Hormone-(4-10)-NH <sub>2</sub> with Bulky Aromatic Amino Acids at Position 7 Show High Antagonist Potency and Selectivity at Specific Melanocortin Receptors," <i>J. Med. Chem.</i> 38:3454-3461 (1995)
31	Kameyama et al., "Expression of melanocyte stimulating hormone receptors correlates with mammalian pigmentation, and can be modulated by interferons," <i>J. Cellular Physiology</i> 137(1):35-44 (October 1988)
32	Karnik et al., "Cysteine residues 110 and 187 are essential for the formation of correct structure in bovine rhodopsin," <i>Proc. Natl. Acad. Sci. USA</i> 85:8459-8463 (1988)
33	Klein et al., "Pressor and cardioaccelerator effects of gamma MSH and related peptides," <i>Life Sci.</i> 36:769-775 (1985)
34	Labbe et al., "Molecular Cloning of a Mouse Melanocortin 5 Receptor Gene Widely Expressed in Peripheral Tissues," <i>Biochem.</i> 33:4543-4549 (1994)
35	Laursen and Belknap, "Intracerebroventricular Injections in Mice," <i>J. Pharmacol. Methods</i> 16:355-357 (1986)
36	Leiba et al., "The melanocortin receptor in the rat lacrimal gland: a model system for the study of MSH (melanocyte stimulating hormone) as a potential neurotransmitter," <i>European Journal of Pharmacology</i> 181(1-2):71-82 (May 31, 1990)
37	Libert et al., "Selective Amplification and Cloning of Four New Members of the G Protein-Coupled Receptor Family," <i>Science</i> 244:569 (1989)
38	Lin et al., "A $\gamma$ -melanocyte stimulating hormone-like peptide causes reflex natriuresis after acute unilateral nephrectomy," <i>Hypertension</i> 10:619-627 (1987)
39	Ling et al., "Synthesis and biological activity of four gamma-melanotropin peptides derived from the cryptic region of the adrenocorticotropin/ $\beta$ -lipotropin precursor," <i>Life Sci.</i> 25:1773-1780 (1979)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b> <b>01-104-B</b>	<b>Serial No.</b> <b>10/074,754</b>
<b>INFORMATION DISCLOSURE STATEMENT BY</b> <b>APPLICANT</b>			
		<b>Applicant: Cone et al.</b>	
		<b>Filing Date:</b> <b>February 13, 2002</b>	<b>Group: 1614</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	40	Lu et al., "Agouti protein is an antagonist of the melanocyte-stimulating-hormone receptor," <i>Nature</i> 371:799-802 (1994)
	41	Masu et al., "cDNA cloning of bovine substance-K receptor through oocyte expression system," <i>Nature</i> 329:836-838 (1987)
	42	Matsuda et al., "Structure of a cannabinoid receptor and functional expression of the cloned cDNA," <i>Nature</i> 346:561-564 (1990)
	43	Mertz et al., "Adrenocorticotropin receptors: Functional expression from rat adrenal mRNA in <i>Xenopus laevis</i> oocytes," <i>PNAS</i> 88:8525-8529 (1991)
	44	Moore et al., <i>Endocrinology</i> 34:107-114 (1991)
	45	Mountjoy et al., "Localization of the Melanocortin-4 Receptor (MC4-R) in Neuroendocrine and Autonomic Control Circuits in the Brain," <i>Mole. Endocrinol.</i> 8:1298-1308 (1994)
	46	Mountjoy et al., "The cloning of a family of genes that encode the melanocortin receptors," <i>Science</i> 257:1248-1251 (1992)
	47	Oelofsen & Ramachandran, "Studies of Corticotropin Receptors on Rat Adipocytes," <i>Arch. Biochem. Biophys.</i> 225:414-421 (1983)
	48	Oki et al., "γ-MSH Fragments from ACTH-β-LPH Precursor Have an Affinity for Opiate Receptors," <i>Eur. J. Pharmacol.</i> 64:161-164 (1980)
	49	Pawalek, "Studies on the Cloudman Melanoma Cell Line as a Model for the Action of MSH," <i>Yale J. Biol. Med.</i> 58:571-578 (1985)
	50	Pawelek, "Factors Regulating Growth and Pigmentation of Melanoma Cells," <i>J. Invest. Dermatol.</i> 66:201-209 (1976)
	51	Roselli-Rehfuss et al., "Identification of a receptor for γ melanotropin and other proopiomelanocortin peptides in the hypothalamus and limbic system," <i>Proc. Natl. Acad. Sci. USA</i> 90:8856-8860 (1993)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>  <b>01-104-B</b>	<b>Serial No.</b>  <b>10/074,754</b>
		<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	
		<b>Applicant: Cone et al.</b>	
		<b>Filing Date:</b> <b>February 13, 2002</b>	<b>Group: 1614</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	52	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491 (1988)
	53	Sambrook et al., 1990, <u>Molecular Cloning: A Laboratory Manual</u> (Cold Spring Harbor Press: New York)
	54	Sanger et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> 74:5463-5467 (1977)
	55	Schild, "pA, A New Scale for the Measurement of Drug Antagonism," <i>Brit J. Pharmacol.</i> 2:189-206 (1947)
	56	Schimmer et al., "Adrenocorticotropin-Resistant Mutants of the Y1 Adrenal Cell Line Fail to Express the Adrenocorticotropin Receptor," <i>J. Cell Physiol.</i> 163:164-171 (1995)
	57	Schimuze, "Thirty-five years of progress in the study of MSH," <i>Yale J. Biol. Med.</i> 58:561-570 (1985)
	58	Shimizu et al., "Effects of MSH on Food Intake, Body Weight and Coat Color of the Yellow Obese Mouse," <i>Life Sci.</i> 45:543-552 (1989)
	59	Siegrist et al., "Characterization of Receptors for $\alpha$ -Melanocyte-stimulating Hormone on Human Melanoma Cells," <i>Cancer Research</i> 49:6352-6358 (November 15, 1989)
	60	Siegrist et al., "Quantification of MSH receptors on mouse melanoma tissue by receptor autoradiography," <i>J. Receptor Res.</i> 11:323-331 (1991)
	61	Slominski et al., "Melanotropic activity of gamma MSH peptides in melanoma cells," <i>Life Sci.</i> 50:1103-1108 (1992)
	62	Smithies et al., "Insertion of DNA sequences into the human chromosomal $\beta$ -globin locus by homologous recombination," <i>Nature</i> 317:230-234 (1985)
	63	Solca et al., "The receptor for $\alpha$ -melanotropin of mouse and human melanoma cells," <i>J. Biol. Chem.</i> 264:14277-14280 (1989)

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
-----------------	------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		01-104-B	10/074,754
		Applicant: Cone et al.	
		Filing Date: February 13, 2002	Group: 1614

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

64	Spindel et al., "Cloning and Functional Characterization of a Complementary DNA Encoding the Murine Fibroblast Bobmesin/Gastrin-Releasing Peptide Receptor," <i>Mol. Endocrinol.</i> 4:1956-1963 (1990)
65	Tatro & Reichlin, "Specific receptors for $\alpha$ -melanocyte-stimulating hormone are widely distributed in tissues of rodents," <i>Endocrinology</i> 121:1900-1907 (1987)
66	Tatro et al., "Melanotropin Receptors of Murine Melanoma Characterized in Cultured Cells and Demonstrated in Experimental Tumors <i>in Situ</i> ," <i>Cancer Res.</i> 50:1237-1242 (1990)
67	Thomas & Capecchi, "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells," <i>Cell</i> 51:503-512 (1987)
68	<u>Tissue Culture</u> , Academic Press, Kruse & Patterson, editors (1973)
69	Tsujii et al., "Acetylation Alters the Feeding Response to MSH and Beta-Endorphin," <i>Brian Res. Bull.</i> 23:165-169 (1989)
70	Yen et al., "Obesity, diabetes, and neoplasia in yellow $A^y$ /-mice: ectopic expression of the <i>agouti</i> gene," <i>FASEB J.</i> 8:479-488 (1994)
71	Zhou et al., "Cloning and expression of human and rat $D_1$ dopamine receptors," <i>Nature</i> 347:76-80 (Sep. 1990)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.